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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/682,283	10/09/2003	Andrew Horch	C018-D-1	9369
75	90 03/09/2005		EXAM	INER
H. C. Chan			FARAHAN	VI, DANA
T-RAM, Inc.				
100 Headquarte	rs Drive		ART UNIT	PAPER NUMBER
San Jose, CA 95134-1370			2829	
			DATE MAILED: 03/09/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/682,283	HORCH ET AL.			
		Examiner	Art Unit			
		Dana Farahani	2829			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive	1) Responsive to communication(s) filed on 25 February 2004.					
2a) ☐ This action is	s FINAL . 2b)⊠ Thi	s action is non-final.				
3) Since this ap	oplication is in condition for allowa	ance except for formal matters, pro	secution as to the merits is			
closed in acc	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims	S					
4)⊠ Claim(s) <i>1-1</i>	4)⊠ Claim(s) <u>1-18</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
<u> </u>	5) ⊠ Claim(s) 18 is/are allowed. 6) ⊠ Claim(s) 1 and 2 is/are rejected. 7) ⊠ Claim(s) 3-17 is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement.					
7) Claim(s) 3-1						
8) Claim(s)						
Application Papers						
9)⊠ The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S	.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
• • • • • • • • • • • • • • • • • • • •						
 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 						
						application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.						
Attachmout(-)						
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Praftsperson	(P10-413) ite					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) Notice of Informal Patent Application (PTO-152)						
Paper No(s)/Mail Date 6) Uther:						

DETAILED ACTION

Specification

1. The title of the invention is not specific enough to clearly indicate as to what the invention is directed to. A new title is required that is clearly indicative of the invention to which the claims are directed.

The following title is suggested: Shunt connection to the Emitter of a Thyristor.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1 and 2 are rejected under 35 U.S.C. 102(b) as being anticipated by Liaw et al., hereinafter Liaw (US Patent 6,137,122).

Regarding claim 1, Liaw discloses in figure 4, forming a thyristor having a body (regions 56,50,54 and 52) and a control port (the gate at the left-hand-side of the gate shown at the right side of the figure) capacitively coupled to the thyristor body, the body including an emitter region 56 below the upper surface of the semiconductor substrate; and forming a conductive shunt 72 in the substrate and extending between a node G1 at the upper surface of the substrate and the emitter region.

Regarding claim 2, Liaw discloses forming a pass device (which includes the gate at the right side of the figure) having first and second source/drain regions (58 and

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62) separated by a channel region and a gate 68 capacitively coupled to the channel region, the first source/drain region being electrically coupled to the emitter region via the node at the upper surface of the substrate.

Allowable Subject Matter

- 4. Claim 18 is allowed.
- 5. Claims 3-17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dana Farahani whose telephone number is (571)272-1706. The examiner can normally be reached on M-F 9:00AM - 6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bill Baumeister can be reached on (571)272-1722. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

D. Farahani

B. WILLIAM BAUMEISTER
SUPERVISORY PATENT FYMANIA